ŤI-36853

## APPLICATION FOR UNITED STATES PATENT DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor if only one name is listed below, or an original, first and joint inventor if plural inventors are named below, of the subject matter which is claimed and for which a patent is sought on the invention entitled as set forth below, which is described in the attached specification; that I have reviewed and understand the contents of the specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration; that no application for patent or inventor's certificate on this invention has been filed by me or my legal representatives or assigns in any country foreign to the United States of America; and that I acknowledge my duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, section 1.56;

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

|                                                                                                                                                                             | 7.00                                                            |                                 |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|---------------------------------|--|--|
| TITLE OF INVENTION:                                                                                                                                                         |                                                                 |                                 |  |  |
| 01141 1 1/117000 500 711101/ 0                                                                                                                                              |                                                                 |                                 |  |  |
| SMALL VIATOPS FOR THICK COPPER CONNECTORS                                                                                                                                   |                                                                 |                                 |  |  |
| POWER OF ATTORNEY: I HEREBY APPOINT THE FOLLOWING ATTORNEYS TO PROSECUTE THIS APPLICATION AND TRANSACT ALL BUSINESS IN THE PATENT AND TRADEMARK OFFICE CONNECTED THEREWITH. |                                                                 |                                 |  |  |
| Practitioners at Customer Number: 23494 Thomas G. Eschweiler, Reg. No. 36,981                                                                                               |                                                                 |                                 |  |  |
|                                                                                                                                                                             | Eric M. Highman, Reg. No. 43,6<br>Gregory J. Adams, Reg. No. 44 |                                 |  |  |
|                                                                                                                                                                             | William J. Cooper, Reg. No. 44                                  |                                 |  |  |
| SEND CORRESPONDENCE TO:                                                                                                                                                     |                                                                 | DIRECT TELEPHONE CALLS TO:      |  |  |
| Jacqueline J. Garner                                                                                                                                                        |                                                                 | Jacqueline J. Garner            |  |  |
| Texas Instruments Incorporated PO Box 655474, M/S 3999                                                                                                                      |                                                                 | (214) 532-9348                  |  |  |
| Dallas, TX 75265                                                                                                                                                            |                                                                 |                                 |  |  |
| NAME OF INVENTOR: (1)                                                                                                                                                       | NAME OF INVENTOR: (2)                                           | NAME OF INVENTOR: (3)           |  |  |
| Betty Shu Mercer                                                                                                                                                            | Alec J. Morton                                                  | Byron Lovell Williams           |  |  |
| RESIDENCE (City and State Only)                                                                                                                                             | RESIDENCE (City and State Only)                                 | RESIDENCE (City and State Only) |  |  |
| Plano, Texas                                                                                                                                                                | Plano, Texas                                                    | Plano, Texas                    |  |  |
| Post Office Address:                                                                                                                                                        | Post Office Address:                                            | Post Office Address:            |  |  |
| 5108 Lake Falls Drive                                                                                                                                                       | 3900 Ranch Estates Drive                                        | 4012 Kite Meadow Drive          |  |  |
| Plano, Texas 75093                                                                                                                                                          | Plano, Texas 75074                                              | Plano, Texas 75074              |  |  |
| Country of Citizenship: United States                                                                                                                                       | Country of Citizenship:<br>United Kingdom                       | Country of Citizenship:         |  |  |
|                                                                                                                                                                             |                                                                 | United States                   |  |  |
| Signature of Inventor:                                                                                                                                                      | Signature of Inventor:                                          | Signature Of Inventor:          |  |  |
| Betty Ehr Hercer                                                                                                                                                            | 'Alex J Morra                                                   | Taga Wan                        |  |  |
| Date:                                                                                                                                                                       | Date:                                                           | Date. / /                       |  |  |
| 12/11/2003                                                                                                                                                                  | 11 December 2003                                                | 12/11/03                        |  |  |
|                                                                                                                                                                             |                                                                 | 1 1                             |  |  |

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| TITLE OF INVENTION                                                                                                                                                          |                                                                                                                                       |                                                                   |  |
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| Practitioners at Customer Number: 2                                                                                                                                         | 3494 Thomas G. Eschweiler, Reg. N<br>Eric M. Highman, Reg. No. 43,<br>Gregory J. Adams, Reg. No. 44<br>William J. Cooper, Reg. No. 44 | 672<br>4,494                                                      |  |
| SEND CORRESPONDENCE TO:                                                                                                                                                     |                                                                                                                                       | DIRECT TELEPHONE CALLS TO:                                        |  |
| Jacqueline J. Garner<br>Texas Instruments Incorporated<br>PO Box 655474, M/S 3999<br>Dallas, TX 75265                                                                       |                                                                                                                                       | Jacqueline J. Garner<br>(214) 532-9348                            |  |
| NAME OF INVENTOR: (1)                                                                                                                                                       | NAME OF INVENTOR: (2)                                                                                                                 | NAME OF INVENTOR: (3)                                             |  |
| Laurinda W. Ng                                                                                                                                                              | C. Matthew Thompson                                                                                                                   | Der-E Jan                                                         |  |
| RESIDENCE (City and State Only)                                                                                                                                             | RESIDENCE (City and State Only)                                                                                                       | RESIDENCE (City and State Only)                                   |  |
| Plano, Texas                                                                                                                                                                | Highland Village, Texas                                                                                                               | Plano, Texas                                                      |  |
| Post Office Address:<br>1405 Chicota Drive<br>Plano, Texas 75023                                                                                                            | Post Office Address:<br>122 Gale Lane<br>Highland Village, Texas 75077                                                                | Post Office Address:<br>2521 Naperton Drive<br>Plano, Texas 75025 |  |
| Country of Citizenship:<br>United States                                                                                                                                    | Country of Citizenship:<br>United States                                                                                              | Country of Citizenship:<br>Taiwan                                 |  |
| Signature of Inventor:                                                                                                                                                      | Signature of Inventor:                                                                                                                | Signature Of Inventor.                                            |  |
| Sawinda Mg                                                                                                                                                                  | CMath Than                                                                                                                            | 12 mg                                                             |  |
| Date:                                                                                                                                                                       | Date:                                                                                                                                 | Date:                                                             |  |
| 12/11/2003                                                                                                                                                                  | 12/13/03                                                                                                                              | 12111/67                                                          |  |

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| PPER CONNECTORS  WINT THE FOLLOWING ATTORNEYS TO PROSE RADEMARK OFFICE CONNECTED THEREWITH  Thomas G. Eschweiler, Reg. No. 43,6 Gregory J. Adams, Reg. No. 44 | н.<br>э. 36,981                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PINT THE FOLLOWING ATTORNEYS TO PROSE RADEMARK OFFICE CONNECTED THEREWITH  Thomas G. Eschweiler, Reg. No. 43,6 Gregory J. Adams, Reg. No. 44                  | н.<br>э. 36,981                                                                                                                                                                             |
| 4 Thomas G. Eschweiler, Reg. No<br>Eric M. Highman, Reg. No. 43,6<br>Gregory J. Adams, Reg. No. 44                                                            | н.<br>э. 36,981                                                                                                                                                                             |
| Eric M. Highman, Reg. No. 43,6<br>Gregory J. Adams, Reg. No. 44                                                                                               |                                                                                                                                                                                             |
| William J. Cooper, Reg. No. 44,                                                                                                                               | ,494                                                                                                                                                                                        |
|                                                                                                                                                               | DIRECT TELEPHONE CALLS TO:                                                                                                                                                                  |
|                                                                                                                                                               | Jacqueline J. Garner<br>(214) 532-9348                                                                                                                                                      |
| AME OF INVENTOR: (2)                                                                                                                                          | NAME OF INVENTOR: (3)                                                                                                                                                                       |
| huong-Lan Thi Tran                                                                                                                                            | ·                                                                                                                                                                                           |
| ESIDENCE (City and State Only)                                                                                                                                | RESIDENCE (City and State Only)                                                                                                                                                             |
| risco, Texas                                                                                                                                                  |                                                                                                                                                                                             |
| ost Office Address:<br>316 Voyager Drive<br>risco, Texas                                                                                                      | Post Office Address:                                                                                                                                                                        |
| ountry of Citizenship:<br>nited States                                                                                                                        | Country of Citizenship:                                                                                                                                                                     |
| gnature of Inventor:                                                                                                                                          | Signature Of Inventor:                                                                                                                                                                      |
| Shungbankane                                                                                                                                                  |                                                                                                                                                                                             |
| ite:                                                                                                                                                          | Date:                                                                                                                                                                                       |
| 12/12/03                                                                                                                                                      |                                                                                                                                                                                             |
|                                                                                                                                                               | nuong-Lan Thi Tran  SIDENCE (City and State Only)  isco, Texas  st Office Address: 16 Voyager Drive isco, Texas  untry of Citizenship: nited States  inature of Inventor:  Lucy Yand Market |